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PRESENTATIONS

Invited Presentations

Hobbins MT (2014), A global reference ET service for FEWS NET: goals, tasks, and uses. *FEWS NET Science Update Meeting: Putting Drought in Historical Context*, Boulder, CO, 19-20 November.

Hobbins MT (2014), NOAA's Reference ET forecast and reanalysis products. *WEA-1022 Meteorological and Climate Data to Support ET-Based Irrigation Scheduling, Water Conservation, and Water Resources Management*, Orlando, FL, 17-18 September.

Hobbins MT (2014), Evapotranspiration and evaporative demand: how important are physically based estimates? *North Central Climate Science Center: mini workshop on evapotranspiration*, Fort Collins, CO, 5 May.

Hobbins MT (2013), Evaporative demand: drought impacts and assessment, *Western States Water Council-California Department of Water Resources workshop on Measuring, Quantifying, and Reporting Drought Impacts*, San Diego, CA, 5-7 August.

First-author Presentations

Hobbins MT, McEvoy DJ, Huntington JL, Wood AW, and Verdin JP (2015), The Physical Basis of the Evaporative Demand Drought Index, *American Meteorological Society Annual Meeting*, Phoenix, AZ, 4-8 January. (Poster)

Hobbins MT, McEvoy DJ, Huntington JL, Wood AW, and Verdin JP (2014), The Evaporative Demand Drought Index: The Physical Basis, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract H41B-0799, San Francisco, CA, 15-19 December. (Poster)

Hobbins MT, Senay GB, and Verdin J (2014), NOAA introduces its multi-generational reference evapotranspiration product, *ASABE International Symposium on Evapotranspiration: Challenges in Measurement and Modeling from Leaf to the Landscape Scale and Beyond*, Raleigh, NC, 7-10 April. (Oral)

Hobbins MT, Wood AW, McEvoy D, and Huntington J (2014), An Evaporative Demand Drought Indicator (EDDI), *ASABE International Symposium on Evapotranspiration: Challenges in Measurement and Modeling from Leaf to the Landscape Scale and Beyond*, Raleigh, NC, 7-10 April. (Oral)

Hobbins MT (2014), What drives the spatial and temporal variability of evaporative demand across CONUS? *ASABE International Symposium on Evapotranspiration: Challenges in Measurement and Modeling from Leaf to the Landscape Scale and Beyond*, Raleigh, NC, 7-10 April. (Poster)

Hobbins MT, Geli HME, Lewis C, Senay GB, and Verdin JP (2013), NOAA introduces its first-generation reference evapotranspiration product, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract H53E-1453, San Francisco, CA, 9-13 December. (Poster)

Hobbins MT (2013), What drives spatial and temporal variability of evaporative demand across CONUS? A 1st-order, 2nd-moment variability analysis of potential evaporation, *Thirty-third Annual AGU Hydrology Days*, Fort Collins, CO, 25-27 March. (Oral)

Hobbins MT, Wood A, Werner K, and Streubel D (2012), The drivers of spatial and temporal variability of potential evaporation across CONUS: Laying poor parameterizations to rest with a first-order, second-moment variability analysis, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract H44A-06, San Francisco, CA, 3-7 December. (Oral)

Hobbins MT, Wood A, Werner K, and Streubel D (2012), What drives the spatial and temporal variability of potential evaporation across CONUS and the Colorado River basin? *Utah State University Spring Runoff Conference*, Logan, UT, 3-4 April. (Oral)

Hobbins MT, Wood A, and Werner K (2011), Improving drought monitoring and predictions using physically based evaporative demand estimates, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract H43H-1322, San Francisco, CA, 5-9 December. (Poster)

Hobbins MT, Wood A, Werner K, and Hogue T (2011), Evapotranspiration estimation at the NOAA-NWS-Colorado Basin River Forecast Center: Operational challenges and research opportunities, *Western States Remote Sensing of ET Workshop*, Boise, ID, 12-13 October. (Poster)

Hobbins MT, Wood A, and Werner K (2011), Examining the role of evaporative demand in drought monitoring, *NASA Workshop on Global Drought Monitoring*, Silver Spring, MD, 11-12 April. (Oral)

Hobbins MT, Streubel D, Wood A, and Werner K (2011), Examining the spatio-temporal variability of potential evaporation across the conterminous US, *NASA/USDA Workshop on Evapotranspiration: An Essential Observation for Climate Understanding and Efficient Water Management*, Silver Spring, MD, 5-7 April. (Poster)

Hobbins MT, Streubel D, Werner K, and Brandon D (2011), Developing two long-term, daily datasets of evaporative demand across the conterminous US, *NASA/USDA Workshop on Evapotranspiration: An Essential Observation for Climate Understanding and Efficient Water Management*, Silver Spring, MD, 5-7 April. (Poster)

Hobbins MT, Streubel D, and Werner K (2011), Forecasting evaporative demand across the conterminous US, *NASA/USDA Workshop on Evapotranspiration: An Essential Observation for Climate Understanding and Efficient Water Management*, Silver Spring, MD, 5-7 April. (Oral)

Hobbins MT, Streubel D, and Werner K (2011), Forecasting evaporative demand across the conterminous US, *Utah State University Spring Runoff Conference*, Logan, UT, 29-30 March. (Oral)

Hobbins MT, Streubel D, and Werner K (2011), Forecasting evaporative demand across the conterminous US, *Climate Prediction Application Science Workshop*, Des Moines, IA, 1-4 March. (Oral)

Hobbins MT, Streubel D, Werner K, and Brandon D (2011), Developing two long-term, daily datasets of evaporative demand across the conterminous US, *American Meteorological Society Annual Meeting*, Seattle, WA, 22-27 January. (Poster)

Hobbins MT, Streubel D, Werner K, and Brandon D (2010), Two long-term, daily datasets of evaporative demand for the conterminous US, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract H31B-0981, San Francisco, CA, 13-17 December. (Poster)

Hobbins MT, Dai A, Roderick ML, and Farquhar GD (2008), Parameterizing evaporative demand in the Palmer Drought Severity Index: Implications for Australia, *Eos Trans. AGU*, 89(23), West. Pac. Geophys. Meet. Suppl., Abstract H24A-08, Cairns, Qld., Australia, 29 July-1 August. (Oral)

Hobbins MT, Farquhar GD, and Roderick ML (2007), The evaporation paradox, and the roles of dimming and stilling, *Third Conference of the Gary Comer Abrupt Climate Change Fellowship*, Palisades, NY, 2-5 May. (Oral)

Hobbins MT, Farquhar GD, and Roderick ML (2007), Moving beyond 'the simpler, the better': The dangers of parameterizing evaporative demand by temperature alone, *Third Conference of the Gary Comer Abrupt Climate Change Fellowship*, Palisades, NY, 2-5 May. (Oral)

Hobbins MT, Farquhar GD, and Roderick ML (2007), Do temperature-based parameterizations of evaporative demand force overestimates of mid-latitude continental drying?, *Third Conference of the Gary Comer Abrupt Climate Change Fellowship*, Palisades, NY, 2-5 May. (Poster)

Hobbins MT, Roderick ML, and Farquhar GD (2006), Is the temperature-based parameterization of potential evapotranspiration in the Palmer Drought Severity Index forcing overestimates of mid-continental drying and drought?, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract H24B-04, San Francisco, CA, 11-15 December. (Oral)

Hobbins MT, Roderick ML, and Farquhar GD (2006), What are we talking about when we talk about drying?, *Seventeenth Annual Australia New Zealand Climate Forum*, Canberra, ACT, Australia, 5-7 September. (Oral)

Hobbins MT, Farquhar GD, and Roderick ML (2006), Towards a more robust characterisation of Australian drought, *Bureau of Meteorology workshop on Climate Change Detection and Attribution*, Melbourne, Vic., Australia, 5 June. (Oral)

Hobbins MT, Roderick ML, and Farquhar GD (2006), Evaporation demand: Trends and dynamics, *Final Science Meeting, Cooperative Research Centre for Greenhouse Accounting*, Melbourne, Vic., Australia, 29-30 May. (Oral)

Hobbins MT, Roderick ML, and Farquhar GD (2005), Using a half-century of misdiagnosis to make bad predictions about future drought trends, *Gary Comer Abrupt Climate Change Fellowship Roundtable*, Palisades, NY, 20-22 October. (Poster)

Hobbins MT, Ramírez JA, and Brown TC (2004), Developing a long-term, high-resolution, continental-scale, spatially distributed time-series of topographically corrected solar radiation, *Twenty-fourth Annual AGU Hydrology Days*, Fort Collins, CO, 10-12 March. (Oral)

Hobbins MT, Ramírez JA, and Brown TC (2004), Developing a homogeneous data series of pan evaporation across the conterminous United States for analysis of long-term trends, *Twenty-fourth Annual AGU Hydrology Days*, Fort Collins, CO, 10-12 March. (Oral)

Hobbins MT, Ramírez JA, and Brown TC (2003), Is pan evaporation decreasing across the conterminous United States? If it is, so what?, *Twenty-third Annual AGU Hydrology Days*, Fort Collins, CO, 31 March-2 April. (Oral)

Hobbins MT, Ramírez JA, and Brown TC (2001), Trends in regional evapotranspiration across the United States under the complementary relationship hypothesis, *Twenty-first Annual AGU Hydrology Days*, Fort Collins, CO, 2-5 April. (Oral)

Hobbins MT, Ramírez JA, and Brown TC (1999), The complementary relationship in regional evapotranspiration: The CRAE Model and the Advection-aridity approach, *Nineteenth Annual AGU Hydrology Days*, Fort Collins, CO, 16-20 August. (Oral)

Hobbins MT, Ramírez JA, and Brown TC (1999), Regional evapotranspiration and the complementary relationship: A comparison and evaluation of the CRAE model and the Advection-aridity approach, *Eos Trans. AGU*, 80(17), Spring Meet. Suppl., Abstract H51A-14, Boston, MA, 1-4 June. (Poster)

Co-author Presentations

McEvoy DJ, **Hobbins MT**, Huntington JL, Mejia JF (2015), Exploring the use of physically based evaporative demand anomalies to improve seasonal drought prediction. Nevada Water Resources Association Annual Conference. Reno, NV, 26-29, January. (Poster: 2nd place prize student posters)

Xia Y, **Hobbins MT**, Mu Q, and Ek MB (2015), Evaluation of Multimodel and Multiscale NLDAS-2 Evapotranspiration Using Different Observations. American Meteorological Society Annual Meeting, Phoenix, AZ, 4-8 January. (Poster)

McEvoy DJ, **Hobbins MT**, Huntington JL, Mejia J, Wood AW, Hain C, Anderson M, and Verdin JP (2014), Exploring the use of Physically Based Evaporative Demand Anomalies to Improve Seasonal

Drought Prediction, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract H41B-0799, San Francisco, CA, 15-19 December. (Oral, Invited)

Ham C, **Hobbins MT**, Abt KL, and Prestemon JP (2014), Using the Evaporative Demand Drought Index and the Palmer Drought Severity Index to forecast the number of large wildland fires on federal lands, *Large Wildland Fires Conference*, Missoula, MT, 19-23 May. (Oral)

Bardsley, T, Wood AW, **Hobbins MT**, Kirkham T, Briefer L, Niermeyer J, Burian S, and Goharian E (2014), Planning for an Uncertain Future: Climate Change and the Salt Lake City Water Supply, *CIRES Science Rendezvous*, Boulder, CO, 2 May. (Poster)

McEvoy D, Huntington J, **Hobbins MT**, and Wood A (2014), Tracking flash drought with atmospheric feedbacks, *Great Basin Climate Forum 2014*, Reno, NV, 10 April. (Poster)

Moorhead J, Gowda P, Paul G, **Hobbins MT**, Senay G, Marek T, and Porter D (2014), Accuracy assessment of NOAA's reference evapotranspiration maps in the Texas High Plains, *ASABE International Symposium on Evapotranspiration: Challenges in Measurement and Modeling from Leaf to the Landscape Scale and Beyond*, Raleigh, NC, 7-10 April. (Poster)

McEvoy DJ, **Hobbins MT**, Huntington JL, and Wood AW (2014), Tracking flash drought with land-atmospheric feedbacks, *American Meteorological Society Annual Meeting*, Atlanta, GA, 3-6 February. (Oral: 2nd place prize student presentations)

Snell HD, Palmer CK, Krone-Davis P, Melton FS, and **Hobbins MT** (2013), National Weather Service forecast reference evapotranspiration, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract H21A-1012, San Francisco, CA, 9-13 December. (Poster)

Geli HME, Neale CMU, **Hobbins MT**, Verdin JP, and Senay GB (2013), Actual Evapotranspiration using a two-source energy balance model and gridded reference ETo, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract H21P-03, San Francisco, CA, 9-13 December. (Oral)

Lim WH, Roderick ML, **Hobbins MT**, Wong SC, and Farquhar GD (2012), The energy balance of a US Class A pan? *Centre of Excellence for Climate System Science (CoECSS Workshop)*, Hobart, Tas., Australia, 25-27 September. (Poster)

Verdin J, **Hobbins M**, and Senay G (2012), A new reference evapotranspiration surface for the National Water Census community, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract H33P-08, San Francisco, CA, 3-7 December. (Oral)

Wood A, Werner K, **Hobbins MT**, Clark M, and Verdin J (2011), Science applications in the Colorado River basin to improve drought management, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract GC33C-04, San Francisco, CA, 5-9 December. (Oral)

Lim WH, Roderick ML, **Hobbins MT**, Wong SC, Groeneveld PJ, Sun FB, and Farquhar GD (2011), A new equation for the aerodynamics of pan evaporation, *Eos Trans. AGU*, Fall Meet. Suppl., Abstract H33A-1265, San Francisco, CA, 5-9 December. (Poster)

Lim WH, Roderick ML, Farquhar GD, Wong SC, Groeneveld PJ, **Hobbins MT**, and Sun FB (2009), The aerodynamics of pan evaporation, *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract H51B-0754, San Francisco, CA, 14-18 December. (Poster)

Roderick ML, McVicar TR, Donohue RJ, Van Neil TG, Li L, Rayner DP, Ricciardulli L, Farquhar GD, and **Hobbins MT** (2008), Stilling and the terrestrial hydrologic cycle, *Eos Trans. AGU*, 89(53), Fall Meet. Suppl., Abstract GC42A-08, San Francisco, CA, 15-19 December. (Oral)

Roderick ML, Farquhar GD, **Hobbins MT**, and Lim W-H (2008), Evaporative demand and terrestrial water resources under a changing climate, *Chapman Conference on Atmospheric Water Vapor and its Role in Climate*, Kailua-Kona, HI, 20-24 October. (Poster)

Farquhar GD, Roderick ML, and **Hobbins MT** (2008), Pan evaporation: An update, *Miniconference on Relative Humidity, Earth Temperature and Climate Change*, Lamont-Doherty Earth Observatory of Columbia University, Palisades, NY, 23-24 June. (Oral)

Farquhar GD, **Hobbins MT**, Roderick ML, and Rotstayn LD (2007), PenPan: A general tool for the attribution of changing pan evaporation, *Eos Trans. AGU*, 88(52), Fall Meet. Suppl., Abstract H33B-1259, San Francisco, CA, 10-14 December. (Poster)

Roderick ML, Farquhar GD, and **Hobbins MT** (2005), Climate change: Wetter or drier?, *Ecological Society of Australia Annual Conference*, Brisbane, Qld., Australia, 29 November-2 December. (Oral)

Brown TC, **Hobbins MT**, and Ramírez JA (2005), Where our water supply originates, *2005 American Water Resources Association Conference*, Seattle, WA, 7-10 November. (Oral)

Farquhar GD, Roderick ML, and **Hobbins MT** (2005), Evaporative demand and climate change, *Gary Comer Abrupt Climate Change Fellowship Roundtable*, Palisades, NY, 20-22 October. (Oral)